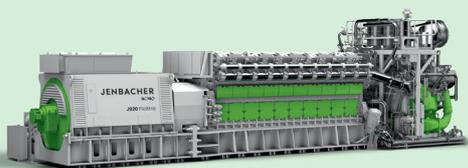


JENBACHER

J920 FLEXTRA POWERPACK

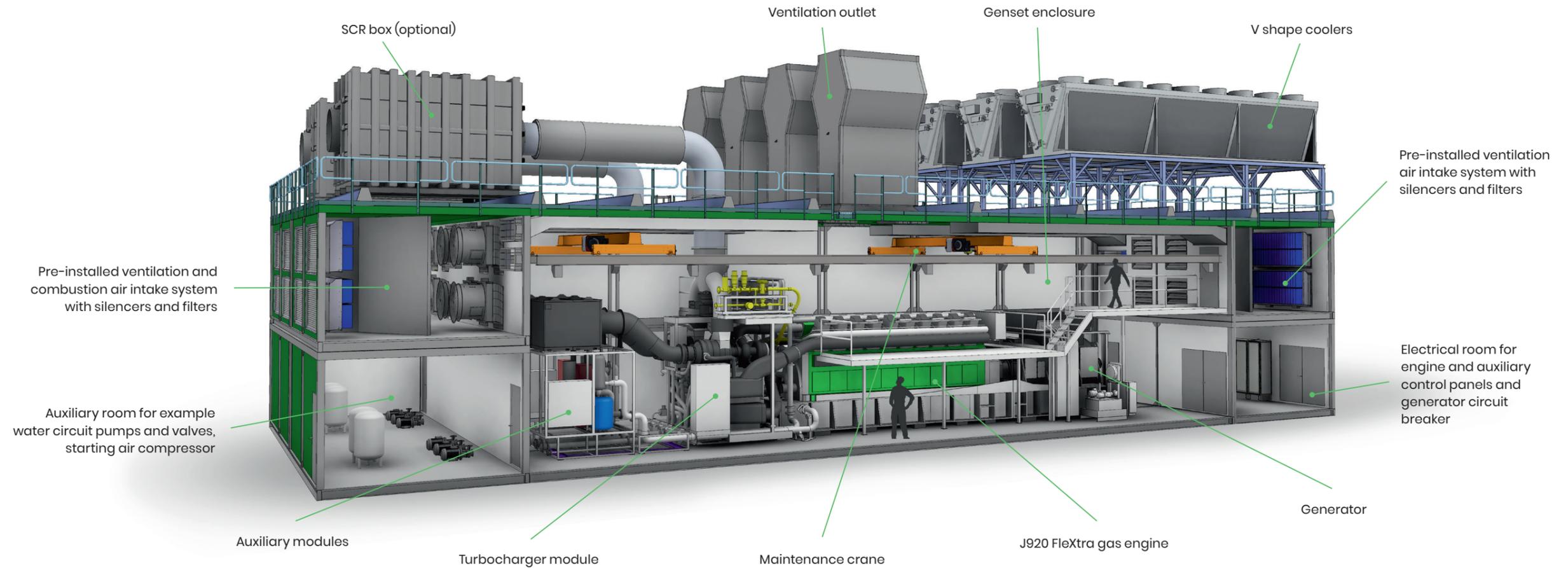
Fast and Scalable Power Modules



**ENERGY SOLUTIONS.
EVERYWHERE, EVERY TIME.**

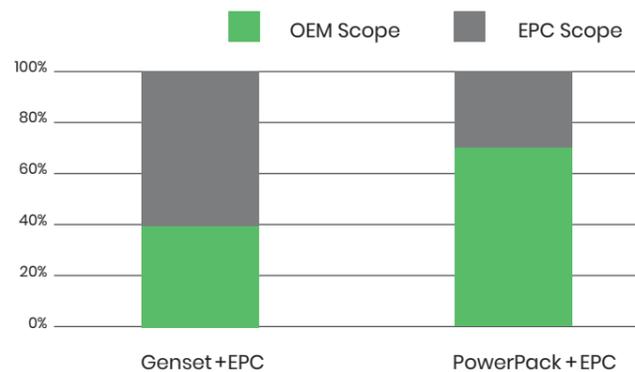


INNIO'S JENBACHER J920 FLEXTRA POWERPACK



INNIO can provide a J920 Flextra Power Pack as a pre-fabricated, compact and optimized solution that covers the majority of the total plant installed equipment. This includes all critical elements for high performance, high reliability, shortened delivery and installation as well as easier plant maintenance.

INNIO's* (OEM) scope responsibility



*Indicates a trademark

Enlarging the J920 Flextra scope of delivery

The J920 Flextra PowerPack is a full installation package including all of the core and performance critical balance of plant equipment around the genset that is required for a power plant installation. The spacious engine room has installed catwalks and cranes for maintenance. On both ends of the engine room the air intake for engine room ventilation and combustion air are installed. The outlet system of the engine room ventilation is installed in the middle, on the roof top. V shape coolers are installed on the roof top of the package to reduce the plant's installed footprint. Also installed on the rooftop is an exhaust treatment system

for NOx and CO emission reduction if required. The auxiliary room contains PowerPack auxiliaries and the electrical room contains engine and auxiliary control panels and the generator circuit breaker.

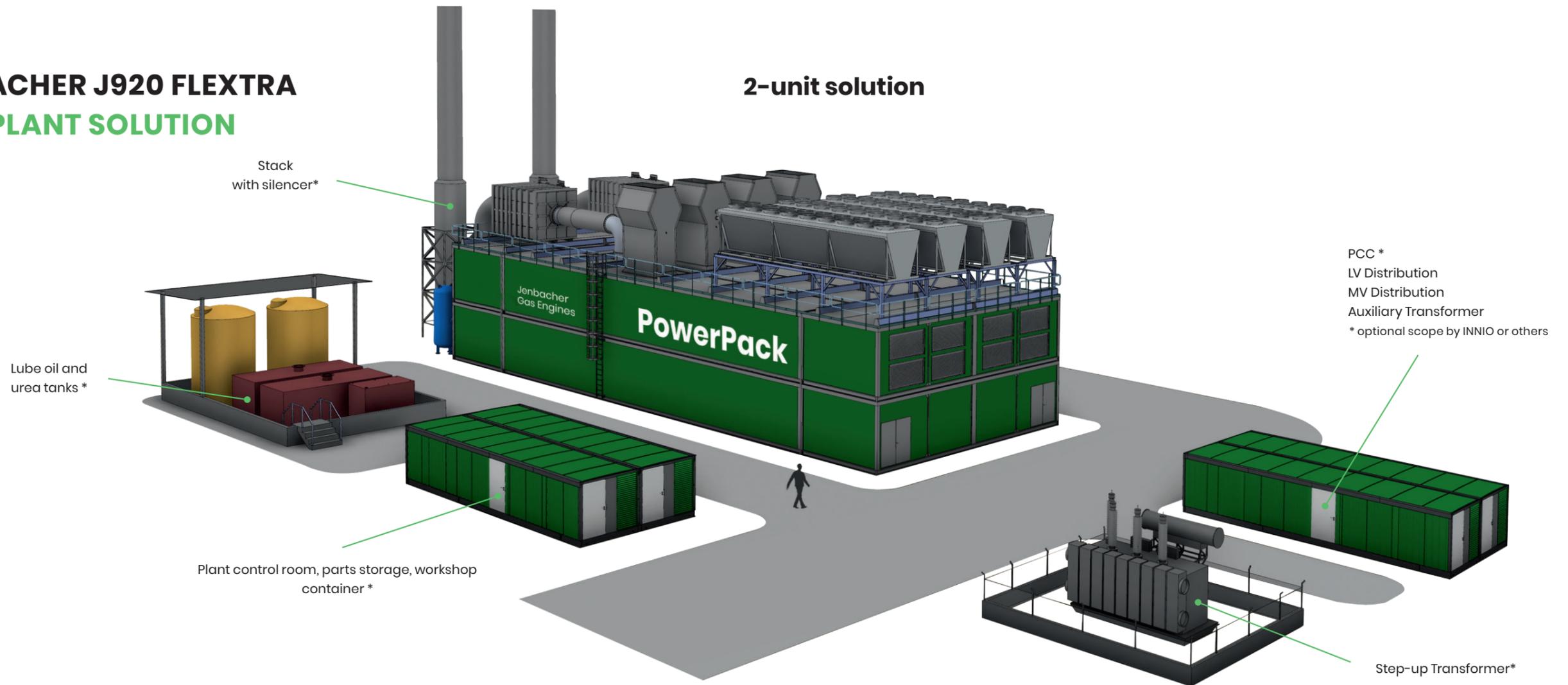
Modular design for high reliability

The PowerPack is designed for modular installations, it is a pre-engineered and validated solution for fast delivery and shortens installation time at site. An ideal solution for power plants in the range of 10 to 50 MW, it provides clear defined and standardized interfaces to the rest of the plant.

Why choose the J920 Flextra PowerPack?

- Modular and compact design for small footprint and later expansion
- Pre-engineered solution to ensure high reliability and serviceability
- Includes all key plant components for performance guarantee with low parasitic loads
- Optimized for fast delivery and short installation time
- Control panels and auxiliary systems in separated rooms

INNIO'S JENBACHER J920 FLEXTRA POWERPACK PLANT SOLUTION



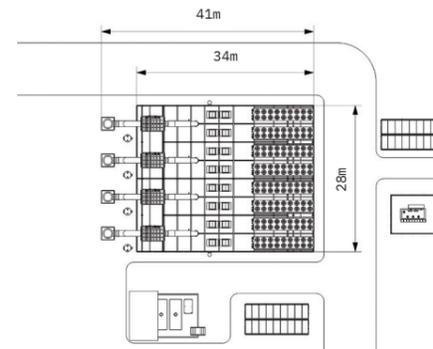
PLANT RESPONSIBILITIES

Ratings per unit	J920 Flextra 50Hz PowerPack	J920 Flextra 60Hz PowerPack
Electrical output (gross)	10,380 kWel	9,340 kWel
Electrical efficiency (gross)	49.1%	49.9%
Heat Rate (gross)	7,332 kJ / kWh	7,214 kJ / kWh
Total efficiency with CHP	90-95%	90-95%

While the J920 Flextra PowerPack itself is a full INNIO scope installation package, project and site specific designs and balance of plant (BoP) systems must be considered such as:

- Fuel gas reducing or compressor station
- Start air vessel, lube oil tanks, urea tanks, water service tanks
- Exhaust gas stack with silencer
- Exhaust gas heat exchanger or boiler for CHP
- Power control container (PCC) with MV distribution, LV distribution and auxiliary transformer
- Step-up transformer
- All civil works including foundations, interconnect piping and wiring and plant control, parts storage, workshop containers etc.

Output and efficiency at generator terminals, ISO 3046, Nat. Gas MN >80, power factor 1.0, 500 mg/Nm3 (@ 5% O2) NOx, efficiency at LHV, all direct driven pumps included.



4-unit plot plan

Ambient conditions

Standard ambient temperature	-20 to 40 °C	-4 to 104 °F
Option for cold ambients down to	-40 °C	-40 °F
Option for high ambients over	40 °C	104 °F

Sound pressure level

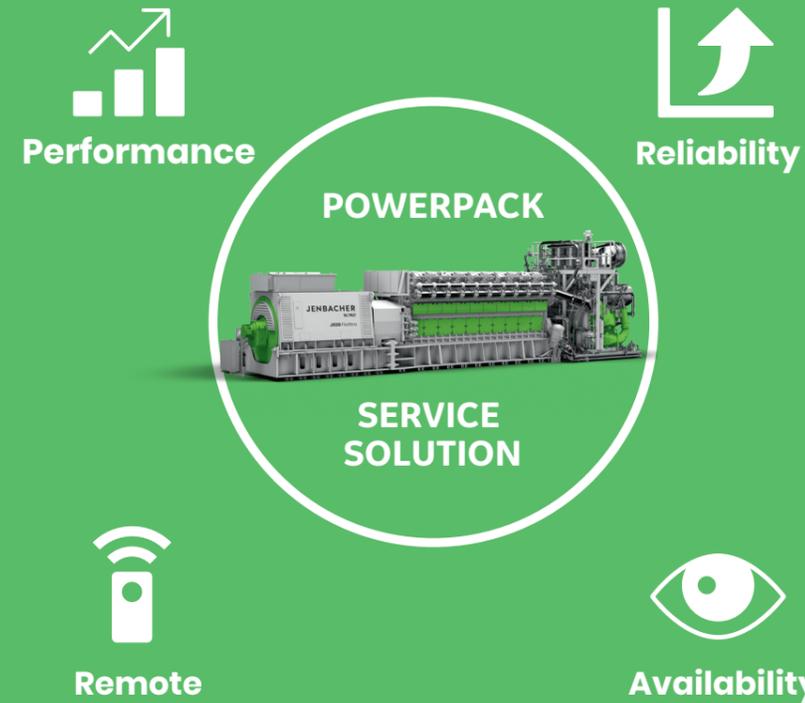
Standard design	85 db(A) in 10 m
Optional design	65 and 75 db(A) in 10 m

(surface and sound pressure level according ISO 3744)

Main dimensions per unit

Length	34.0 m	112 ft
Width	7.0 m	23 ft
Option for high ambients over	11.8 m	39 ft

JENBACHER J920 FLEXTRA POWERPACK PLANT SOLUTION

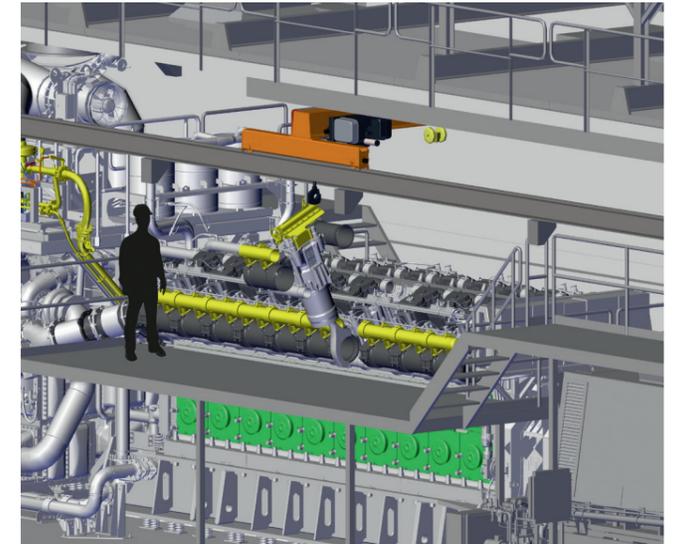


FLEXIBLE SERVICE SOLUTION

The J920 Flextra PowerPack is a INNIO solution with special focus on ease of maintenance and high availability for a complete power plant. Depending on the need of the individual customer INNIO can offer a comprehensive service solution for the entire J920 Flextra PowerPack. The service solution can cover maintenance of the genset, maintaining the total delivered J920 Flextra PowerPack, asset performance management or full operation and maintenance (O&M).

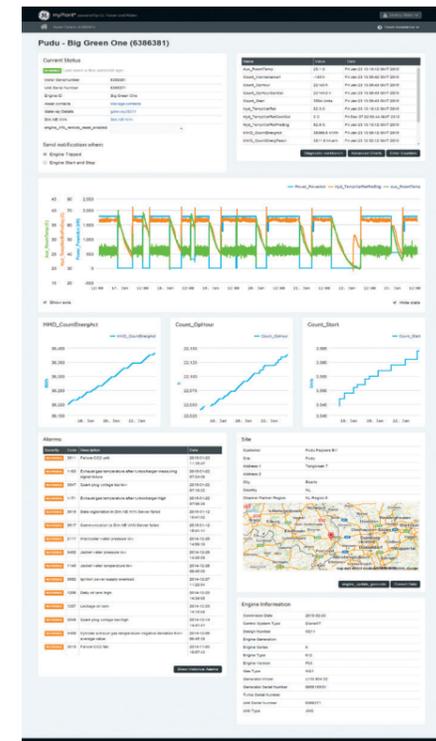
SERVICEABILITY

- The two equipped overhead cranes of the PowerPack enable easy maintenance of the 2-staged turbocharging system, genset auxiliary systems and complete power unit system with less than 4 hours exchange time per cylinder.
- Consumables such as any kind of filter or spark plugs are easy to access from a catwalk in the engine room.
- All key service intervals are aligned between genset and auxiliary systems.



ASSET PERFORMANCE MANAGEMENT

INNIO's asset performance management myPlant* enables condition based maintenance (CBM) of the delivered equipment, and it strongly supports remote operation. By choosing the J920 Flextra PowerPack the entire power plant follows the CBM approach and results in operation and maintenance cost savings for the customer.



INNIO is a leading provider of renewable gas, natural gas, and hydrogen-based solutions and services for power generation and gas compression at or near the point of use. With our Jenbacher and Waukesha gas engines, INNIO helps to provide communities, industry and the public access to sustainable, reliable and economical power ranging from 200 kW to 10 MW. We also provide life-cycle support and digital solutions to the more than 53,000 delivered gas engines globally, through our service network in more than 100 countries. We deliver innovative technology driven by decarbonization, decentralization, and digitalization to help lead the way to a greener future. Headquartered in Jenbach, Austria, the business also has primary operations in Welland, Ontario, Canada, and Waukesha, Wisconsin, U.S.

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